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# 32-4482: Recombinant Human Proopiomelanocortin

**Alternative Name :** Pro-opiomelanocortin,POMC,Corticotropin-lipotropin,LPH,MSH,NPP,POC,ACTH,CLIP.

## Description

Source : Escherichia Coli. POMC produced in E.Coli is a single, non-glycosylated polypeptide chain containing 262 amino acids (27-267 a.a) and having a molecular mass of 28.9kDa (molecular weight on SDS-PAGE will appear higher).POMC is fused to a 21 amino acid His-tag at N-terminus & purified by proprietary chromatographic techniques. Pro-opiomelanocortin preproprotein (POMC) is a polypeptide hormone precursor which experiences extensive, tissue-specific, post-translational processing via cleavage by subtilisin-like enzymes known as prohormone convertases. POMC regulates the corticosteroid production in the adrenal cortex. Furthermore, POMC is cleaved into ten hormone chains named NPP, g-MSH, ACTH, a-MSH, CLIP, Lipotropin b, Lipotropin g, b-MSH,b endorphin and Met-enkephalin. POMC gene defects are the cause of POMC deficiency, which is characterized by red hair and adrenal insufficiency.

## Product Info

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| **Amount :** | 10 µg |
| **Purification :** | Greater than 85.0% as determined by SDS-PAGE. |
| **Content :** | POMC protein solution (0.25mg/ml) containing 20mM Tris-HCl buffer (pH 8.0), 1mM DTT, 50% glycerol and 0.2M NaCl. |
| **Storage condition :** | Store at 4°C if entire vial will be used within 2-4 weeks. Store, frozen at -20°C for longer periods of time. For long term storage it is recommended to add a carrier protein (0.1% HSA or BSA).Avoid multiple freeze-thaw cycles. |
| **Amino Acid :** | MGSSHHHHHH SSGLVPRGSH MWCLESSQCQ DLTTESNLLE CIRACKPDLS AETPMFPGNG DEQPLTENPR KYVMGHFRWD RFGRRNSSSS GSSGAGQKRE DVSAGEDCGP LPEGGPEPRS DGAKPGPREG KRSYSMEHFR WGKPVGKKRR PVKVYPNGAE DESAEAFPLE FKRELTGQRL REGDGPDGPA DDGAGAQADL EHSLLVAAEK KDEGPYRMEH FRWGSPPKDK RYGGFMTSEK SQTPLVTLFK NAIIKNAYKK GE. |

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